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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/508,404	-	06/12/2000	SEPPO UOSUKAINEN	2971070US	1108
466	7590	10/08/2003		EXAMINER	
YOUNG &			TRAN, CON P		
745 SOUTH 23RD STREET 2ND FLOOR ARLINGTON, VA 22202				ART UNIT	PAPER NUMBER
	,			2644	
				DATE MAILED: 10/08/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

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		Application No.	Applicant(s)				
•		09/508,404	UOSUKAINEN ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Con P. Tran	2644				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status 1)⊠ F	tosponsivo to communication(s) filed on 12	luno 2000					
	desponsive to communication(s) filed on $12\sqrt{2}$ his action is FINAL . 2b) \boxtimes Th	is action is non-final.					
•	ince this application is in condition for allowa		rosecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
•	aim(s) 1-7 is/are pending in the application.						
-	Of the above claim(s) is/are withdraw	wn from consideration.					
5)□ CI	aim(s) is/are allowed.						
6)⊠ CI	Claim(s) <u>1-7</u> is/are rejected.						
7)□ CI	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application 	Papers						
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
_	All b)☐ Some * c)☐ None of:						
_	Certified copies of the priority documents						
	Certified copies of the priority documents						
	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)	<u> </u>	,,					
2) 🔲 Notice of	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) on Disclosure Statement(s) (PTO-1449) Paper No(s) <u>5</u>	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Hersh et al. 6,201,872 (hereinafter, "Hersh").

Regarding **claim 5**, Hersh teaches an equipment for attenuating sound in a duct, the equipment comprising a detector (optical sensor) for detecting the sound to be attenuated and two successive actuator elements (four arrays of eight microphones per

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array) for producing a sound attenuating counter-sound (see Fig. 21, and respective portions of the specification; col. 15, lines 1-23), characterized in that the actuator elements (four arrays of microphones, Fig. 21) are monopole elements (i.e., two array of eight monopoles, Fig. 21) which are arranged to function as a dipole approximation (i.e., eight acoustic "dipoles", col. 15, lines 1-3) and to also produce a necessary monopole radiation and that the equipment comprises means for feeding a dipole control signal (Multi-channel Active High mode controller, Fig. 21, col. 3, lines 55-60; col. 15, lines 18-23) to both elements (four arrays of eight microphones per array, Fig. 21) at a phase shift which is 180 degree between the two elements and for feeding a monopole control signal to the elements (four arrays of eight microphones per array, Fig. 21) cophasally (col. 15, lines 1-23).

Regarding **claim 1**, this claim is interpreted and thus rejected for the reasons set forth above in the rejection of claim 5.

Allowable Subject Matter

3. Claims 2-4 and 6-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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As to **claims 2-4 and 6-7**, the prior art of record discloses numerous examples of attenuation sound pressure for attenuating sound in a duct but fails to disclose or fairly suggests the mathematical formulas as specified in claims 2-3, and 8-9.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Con P. Tran, whose telephone number is (703) 305-2341. The examiner can normally be reached on M - F (8:30 AM - 5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W. Isen can be reached on (703) 305-4386. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service Office at telephone number (703) 306-0377.

cpt (J) October 1, 2003

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